Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

["TÉLESCOPE GÉANT: M. MACAFEE, bien connu aux U. S. A. pour ses travaux astron., en collab. avec le Prof. DAVID TODD, de Harvard s'occupe actuellement en France d'établir les plans du plus gigantesque télescope connu. On verra Mars aussi aisément que si l'on n'était qu'à 2 km. 500 de distance.—Pour obvier aux difficultés que présente la construction d'un colossal miroir réflecteur, M. MacAfee remplace celui-ci par une cuvette de métal de 50 pieds de diamètre, remplie de mercure; un mouvement rotatif imprimé a cette cuvette lui donne la concavité voulue, et lui fait jouer l'office de réflecteur. On announce la livraison pour 1924."]

UNDERGRADUATE MATHEMATICS CLUBS.

All reports of club activities should be sent to E. L. DODD, 3012 West Ave., Austin, Texas.

CLUB ACTIVITIES.

THE MATHEMATICS CLUB OF BROWN UNIVERSITY, Providence, R. I.

[*1918*, 33; *1919*, 167; *1920*, 28, 223.]

The officers for the session 1921–1922 are the following: Chairman, Professor R. G. D. Richardson; Committee on program, Professor Burgess, Professor Gilman, Frances Merriam, Gr., Elizabeth Stafford '23, Charles Hopkins '22, George Sauté '24; Committee on arrangements, Mr. C. D. Wentworth, instructor, Nellie Stokes '23, Frances Wright '23, Clarence Eddy '22, Phillip Welch '23.

In a printed program, the following papers are announced:

October 27, 1921: "The story of a mathematical book" by Professor D. E. Smith, of Columbia University.
December 9: "Lewis Carroll" by Dorothy Rickenbacker '23; "Number systems on other bases than ten" by Clarence Bennett '23; "Various proofs of the Theorem of Pythagoras" by George Sauté '24.
January 13, 1922: "Mathematics of the calendar" by Henry Bodwell '24; "The three point problem" by Frances Merriam, Gr.
February 17: "Skeleton division" by Clarence Eddy '22; "Cardan and the solution of the cubic" by Elizabeth Stafford '23; "The inscribed regular heptagon" by Frances Wright '23.
March 10: "Some special graphical methods" by Professor O. D. Kellogg, of Harvard University.
April 28: "Cryptography" by Donald MacPherson, Gr.; "Galois" by Katherine Colton '22; "Measuring the diameter of Betelgeuse" by Charles Hopkins '22.
May: Picnic.

MATHEMATICS CLUB OF COLUMBIA UNIVERSITY, New York.

[*1918*, 227; *1919*, 262; *1920*, 425.]

The following officers were elected for the year 1920–21: President, Albert Meder, Jr. '22; vice-president, Oscar Bodansky '22; secretary, William Thompson '23. The following papers were read:

October 1, 1920: "Some graphical methods" by Albert Meder, Jr. '22.
October 15: "Mathematical bits from Leacock" by Oscar Bodansky '22.
October 29: "Formulæ of investments" by Professor L. P. Siceloff.
November 12: "The probability equation" by A. Preisman '22.
November 26: "Constructibility" by O. Frink, Jr. '22.
December 10: "Analytic methods" by R. Kronig '22.
January 12, 1921: "Relations" by Professor C. J. Keyser.
February 18: "Volumes and areas with empirical boundaries" by W. Skeats '23.
March 4: "Convergent series" by Professor W. B. Fite.
March 18: "Measuring Betelgeuse" by M. Schwartzschild '22.
April 8: "Discontinuous functions" by Professor T. S. Fiske.

April 22: "The mathematics of wound healing" by William Thompson '23.
May 6: "Types of geometry" by Dr. K. Lamson.

The average attendance was about fifteen.

(Reported by Mr. Thompson.)

THE GRINNELL COLLEGE MATHEMATICS CLUB, Grinnell, Iowa. [*1918*, 449.]

November 2, 1920: "Archimedes, his life and work" by Louise Pinkerton '22. Election of officers.
November 16: "Fallacies" by Elizabeth Pace '22; "Simultaneous equations" by Burton Jones '23. Problems.
November 30: "Proofs of the Pythagorean theorem" by Raymond Weigen '22.
December 6: "The mathematical treatment of certain classes of scientific data" by Professor H. L. Rietz, of The State University of Iowa. This was a joint meeting with the Science Club.
January 11, 1921: "Chinese swan pan" by Ruth Raffety '23; "Mathematics of the calendar" by Margaret Divelbess '23. The constitution presented by Louise Pinkerton '22.
March 8: "First mathematical work printed in the New World" by Ruth Boyce '22; "Plato's general attitude toward mathematics" by Frances Nelson '22.
March 22: Social meeting.
April 5: "Projective geometry" by Professor O. W. Albert.
April 19: "Newton, his life and work" by Robert Hannelly '23; "The adding machine" by Leonard Paulu '22.
May 3: "Constructions on the circle" by Frances Harshberger '23; "College as a training school for mathematics teachers" by Dorothy Rollette '23.
May 10: "Euclid's parallel postulate" by Lillie Mann '23.
May 23: Picnic. Election of officers.

(Reported by Miss Harshberger.)

UNDERGRADUATE MATHEMATICS CLUB, UNIVERSITY OF ILLINOIS, Urbana, Ill. [*1918*, 404; *1919*, 309.]

The Club was organized under a new constitution March 24, 1920, which provided that members be undergraduates belonging to one of the following classes: (1) Students with an average of 2/3 A and 1/3 B in mathematics grades or the equivalent; (2) Juniors or seniors majoring in mathematics; (3) Students unanimously elected by a committee of the Club. There is, however, one faculty member, acting as adviser. There are no dues. The Club is for work or mathematical recreation only.

The regular meetings are from 7 to 8 p.m., weekly; and are open to the public,—the business meetings being separate. The first quarter of the hour is devoted to problems. An address, about one-half hour long, follows. Discussion concludes the program. Each member is expected to give one address during the year. The general theme for the year was "The applications of mathematics."

The average attendance is about twenty.

The following officers were elected for 1920–21: President, John Arnold '21; vice-president, Lorraine Conrad '21; secretaries, Lloyd Baker '22, Vincent Duvigneaux '22, Nelson Sowers '24.

The papers presented were:

October 6, 1920: "Applications of mathematics to chemistry" by Vincent Duvigneaux '22.
October 13: "Mathematical aspects of statistics" by Professor A. R. Crathorne.
October 20: "Applications of mathematics to insurance" by Lorraine Conrad '21.
October 27: "Applications of mathematics to physics" by Professor A. W. Williams.
November 3: "Slide rules" by Dr. H. M. Westergaard, associate.
November 10: "The influence of mathematical theories in the history of psychology" by Professor C. A. Ruckmick.
November 17: "Logarithm tables" by Professor Joel Stebbins.
November 24: "Mathematics in electricity" by Lloyd Baker '22.
December 1: "Mathematics in sound" by Dorothy Briggs '21.
December 8: "Einstein's restricted theory of relativity" by John Arnold '21.

December 15: "The physical basis of Einstein's theory" by Dr. W. H. Hyslop, instructor in Physics.
December 22: "Mathematics in electrical engineering" by A. R. Knight, of the Department of Electrical Engineering.
January 19, 1921: "Linkages" by Arthur Dixon '23.
February 22: "The importance of mathematics in genetic problems" by Professor J. A. Detlefsen, of the College of Agriculture.
March 1: "Mathematics in geology" by Professor T. T. Quirke.
March 8: "The quantitative determination of examinations" by Dr. C. R. Griffith, instructor.
March 15: "Codes and ciphers" by Major G. F. N. Dailey.
March 22: "Professor Michelson's interferometer" by John Worley '23.
April 5: "The determination of π" by Dorothy Briggs '21.
April 12: "The history of the calendar" by Nelson Sowers '24.
April 19: "Mathematical short cuts" by Arthur Dixon '23.
April 26: "Whole numbers" by Professor A. J. Kempner.
May 10: "Calculating machines" by Frank Hutchins '24.
May 17: "Mathematics in music" by John Arnold '21.

By constitutional revision May 10, 1921, the Club decided to separate into two divisions, a men's and a women's division, each self-governed, but closely federated under the old name. While both are concerned with pure mathematics, the men, in addition, will be interested more generally in engineering fields or other scientific work, while the women will be interested in teaching.

The officers of the Men's Mathematics Club for 1921–22 are: President, Vincent Duvigneaux '22; vice-president, Edgar Leach '22; secretaries, Nelson Sowers '24 and Frank Hutchins '24. The officers of the Women's Mathematics Club are: President, Doris Engle '22; vice-president, Lois Trogdon '22; secretary, Nellie Hunt '23; treasurer, Viola Judy '22.

(Reported by Mr. Sowers.)

MATHEMATICS CLUB OF THE UNIVERSITY OF MONTANA, Missoula, Mont.

[*1918*, 408.]

The officers for the year 1920–21 were: President, William Walterskirchen '21; vice-president, Mayme Carney '22; secretary, Cecil Phipps '21; treasurer, Catherine Hauck '23.

The following papers were read:

October 27, 1920: "A proof of the transcendence of e" by Professor E. A. F. Carey.
November 11: "The impossibility of the trisection of the angle" by Hugh Norville '21.
December 9: "$e^{i\pi}$" by Hilda Benson '22.
January 12, 1921: "Developments from the exponential series" by Professor A. S. Merrill.
January 26: "Methods of sailing" by Harry Rooney '22.
February 23: "The fundamental concepts of relativity" by Cecil Phipps '21.
March 9: "Probability in a game of dice" by Ruth McQuay '22.
March 23: "Experimental verification of relativity" by Cecil Phipps '21.
April 27: "DeMoivre's theorem" by Kay McKoin '22.
May 25: "The simple pendulum" by William Walterskirchen '21.

(Reported by Mr. Phipps.)

PI MU EPSILON, UNIVERSITY OF PENNSYLVANIA, Philadelphia, Pa.

[*1918*, 455.]

The chapter of Pi Mu Epsilon recently organized at the University of Pennsylvania is the successor to the "Vinculum." Members of the Mathematics Department, graduates, and undergraduates majoring in mathematics are eligible to membership. The organization has about thirty members, eight of whom are of the faculty. During the past year the majority of the meetings were of a purely business nature.

The officers for 1921–22 are: Director, Professor E. S. Crawley; vice-director, Professor J. H. Minnick, dean of the School of Education; secretary, Ella Rosentoor '22; treasurer, Esther Bernstein '23; librarian, Mabel Kessler '21.

The following were open meetings:

February 18, 1921: "Einstein's theory" by Professor C. Richards, of the Department of Mathematical Physics.
April 22: "Astronomy," an illustrated lecture by Professor S. G. Barton, of the Department of Astronomy.

(Reported by Miss Rosentoor.)

Pi Mu Epsilon, Syracuse University, Syracuse, N. Y.

[*1918*, 271.]

The officers for the year 1920–21 were: Director, Professor J. J. Nassau; vice-director, Professor Mary Harwood; secretary, Marion French '21; treasurer, Sterling Pugh '21; librarian, Leda Gast '21. Two of the faculty, one graduate and eight undergraduates were elected to membership. There was a Christmas party and a picnic in addition to the following meetings:
October 11, 1920: "Computation of the orbits of comets" by Professor L. Lindsay.
November 8: "History and ideals of Pi Mu Epsilon" by Professor E. D. Roe, Jr.
December 13: "Research work" by Professor W. H. Metzler; "A slide rule for the solution of quadratic equations" by Professor Nassau.
February 7, 1921: "Quaternions" by Professor Roe; "The geometry of point space of n dimensions" by Professor Nassau.
March 21. "Some theorems on determinants" by Jung Sun, Gr.
April 25: "Relativity" by Dean Graham, professor of Electrical Engineering. Open meeting.

(Reported by Professor Nassau.)

The Mathematical and Physical Society of the University of Toronto, Toronto, Ont.

[*1918*, 229; *1919*, 169.]

Officers for the session 1920–21 were elected as follows: Honorary president, Professor Lachlan Gilchrist; president, Aylmer Paisley '21; vice-president, James Phillips '22; secretary, Myra McLean '22; treasurer, William Webster '23; corresponding secretary, Eva Henry '21; representatives—fourth year, Lawrence Rentner '21; third year, Eric Horwood '22; second year, Max Bell '23; first year, Grizilda Bovard '24.

Meetings were held on alternate Thursdays at 4:15 p. m.
October 21, 1920: "How to build up atoms" by Professor J. C. McLennan.
November 4: "Physics, ancient and modern" by Percy Lowe, Gr.; "A college education for business" by Dallas Bates, Gr.
November 18: Social evening.
December 2: "Early life assurance in Britain" by Hudson Stowe '22; "Newton" by George Tuck '23.
December 16: "The notion of correspondence in mathematics" by Professor Samuel Beatty.
January 6, 1921: "My first impressions of the M. P. course" by Dorothy Gavin '22; "Laplace" by Harley Dewey '22.
January 20: Skating party.
February 3: "The life and significance of Galois" by Professor A. T. DeLury. Open meeting.
February 17: Debate between First and Second Years—"Resolved that individual initiative is more apt to bring success than is state control in the development of industrial enterprises."
March 3: "A magnetic survey" by Joseph Pearce, Gr.; "The history of mathematics" by Ewen Armstrong '21.
March 17: "Examination howlers" by Professor J. Satterly. Election of officers. The closing meeting.

(From a printed program, supplemented by Professor Beatty.)